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MAP$(MAPPING-INFORMATION).P29-P91,P93-P96,P24-P28,P21-P23,P1-P19,P20-P20.

Search Results -

Terms	Documents
business same concept same map$ same system	31

Database:
US Patents Full-Text Database
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JPO Abstracts Database
EPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

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Search History

DATE: Wednesday, April 10, 2002 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR		
L24	business same concept same map$ same system	31	L24
L23	L22 and dictionary	2	L23
L22	L21 and database	25	L22
L21	L20 and views	29	L21
L20	L19 and elements	35	L20
L19	map$ same business same concepts	50	L19
L18	L1 and business same schema	20	L18
L17	L1 and business near schema	2	L17
L16	L15 and elements	178	L16
L15	L14 and map$	228	L15
L14	l1 and business	528	L14
L13	l1 and l9	0	L13
L12	l4 and l9	0	L12
L11	l8 and l8	16	L11
L10	l8 and l9	0	L10
L9	5802515.pn.	3	L9
L8	L7 and business	16	L8
L7	L4 and dictionary	19	L7
L6	L4 and dictionary same business same concepts	0	L6
L5	L4 and business same concepts	13	L5
L4	L1 and on-line near analytical near process$ or olap	220	L4
L3	L1 and on-line near analytical near process$	26	L3
L2	L1 and on-line and analytical near process$	30	L2
L1	datamining or data with mining	1263	L1

END OF SEARCH HISTORY

L24: Entry 10 of 31 File: USPT May 5, 1998

US-PAT-NO: 5748188
DOCUMENT-IDENTIFIER: US 5748188 A

TITLE: Hypertext markup language (HTML) extensions for graphical reporting over an internet

DATE-ISSUED: May 5, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hu; Yih-Shiuan	Alpharetta	GA		
Anand; Tejwansh S.	Roswell	GA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
NCR Corporation	Dayton	OH			02

APPL-NO: 8/ 742003 [PALM]
DATE FILED: October 31, 1996

PARENT-CASE:
CROSS-REFERENCE TO RELATED APPLICATIONS This patent application is a continuation-in-part of co-pending U.S. patent application Ser. No. 08/542,266, filed Oct. 12, 1995, and entitled "System and Method For Generating Reports From a Computer Database". This patent application is also related to co-pending U.S. patent application Ser. No. 08/742,007, filed Oct. 31, 1996, and entitled "System and Method For Segmenting a Database Based Upon Data Attributes", and Ser. No. 08/742,006, filed Oct. 31, 1996, and entitled "System And Method For Performing Intelligent Analysis Of A Computer Database".

INT-CL: [6] G06 F 15/00

US-CL-ISSUED: 345/326; 395/200.03, 395/200.36, 707/101, 707/104
US-CL-CURRENT: 345/853; 707/101, 707/104.1, 707/513, 707/526, 709/206, 709/218

FIELD-OF-SEARCH: 707/501, 707/513, 707/515, 707/517, 707/520, 707/522, 707/104, 707/101, 707/102, 707/204, 395/200.3, 395/200.33, 395/200.36, 395/200.48, 395/200.49, 395/200.68, 395/200.76, 345/326

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5088052	February 1992	Spielman et al.	345/346
☐	5355472	October 1994	Lewis	395/500
☐	5404506	April 1995	Fujisawa et al.	707/4
☐	5414838	May 1995	Kolton et al.	707/104
☐	5455945	October 1995	VanderDrift	707/2
☐	5471611	November 1995	McGregor	395/51
☐	5537590	July 1996	Amado	395/50
☐	5544298	August 1996	Kanavy et al.	345/342

OTHER PUBLICATIONS

Korth and Silberschatz, "Database System Concepts" 2/E, McGraw-Hill Inc., pp. 97-98.

ART-UNIT: 273
PRIMARY-EXAMINER: Kim; Matthew M.
ASSISTANT-EXAMINER: Huynh; Ba
ATTY-AGENT-FIRM: Kirsch; Gregory J.

ABSTRACT:

A hypertext data processing system wherein graphical data is sent from a server to a client computer using extensions to the Hypertext Markup Language (HTML). The client computer parses the graphical data and formulates an object representative of the graph to display. The object is passed to a graph server which displays the graph.

6 Claims, 31 Drawing figures

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Freeform Search

Database: US Patents Full-Text Database; US Pre-Grant Publication Full-Text Database; JPO Abstracts Database; EPO Abstracts Database; Derwent World Patents Index; IBM Technical Disclosure Bulletins

Term:

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Search History

DATE: Wednesday, April 10, 2002 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=USPT,PGPB,JPAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR			
L5	l4 and on-line near analytical near process$ or olap	220	L5
L4	datamining or data with mining	1263	L4
L3	olap and datamining	0	L3
L2	5802515.pn.	3	L2
L1	4490811.pn.	3	L1

END OF SEARCH HISTORY

End of Result Set

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L8: Entry 16 of 16 File: USPT Jun 16, 1998

US-PAT-NO: 5767854
DOCUMENT-IDENTIFIER: US 5767854 A

TITLE: Multidimensional data display and manipulation system and methods for using same

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Anwar; Mohammed S.	Houston	TX	77055	

APPL-NO: 8/ 721899 [PALM]
DATE FILED: September 27, 1996

INT-CL: [6] G06 F 3/14

US-CL-ISSUED: 345/355; 345/419
US-CL-CURRENT: 345/848; 345/419

FIELD-OF-SEARCH: 345/339, 345/349, 345/355, 345/440, 345/419, 345/329, 345/334, 707/100, 707/101, 707/102

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected | Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5295243	March 1994	Robertson et al.	345/419
☐	5414802	May 1995	Takamura	345/419
☐	5517602	May 1996	Natarajan	345/419
☐	5602978	February 1997	Lastinger	345/419
☐	5666472	September 1997	Huddy	345/419

ART-UNIT: 273
PRIMARY-EXAMINER: Bayerl; Raymond J.
ASSISTANT-EXAMINER: Nguyen; Cao H.
ATTY-AGENT-FIRM: Strozier; Robert W. Gilbreth; J. M. (Mark) Gilbreth & Strozier, PC

ABSTRACT:

This invention discloses a user interface and data management procedures for the efficient display, manipulation and analysis of multi attributed data or data amenable to multidimensional display, manipulation and management. The invention is centered on the construction and use of data carrousels comprising one or more n-gons where the each n-gon can be a layered n-gon at solid or each side of each n-gon can be a single face of an embedded n-gon.

10 Claims, 39 Drawing figures

WEST

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L8: Entry 8 of 16 File: USPT Apr 3, 2001

US-PAT-NO: 6212524
DOCUMENT-IDENTIFIER: US 6212524 B1

TITLE: Method and apparatus for creating and populating a datamart

DATE-ISSUED: April 3, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weissman; Craig David	Belmont	CA		
Walsh; Gregory Vincent	Cupertino	CA		
Slater, Jr.; Lynn Randolph	Fremont	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
E.piphany, Inc.	San Mateo	CA			02

APPL-NO: 9/ 073752 [PALM]
DATE FILED: May 6, 1998

PARENT-CASE:
CROSS REFERENCES TO RELATED APPLICATIONS This application relates to the following group of applications. Each application in the group relates to, and incorporates by reference, each other application in the group. The invention of each application is assigned to the assignee of this invention. The group of applications includes the following. U.S. patent application Ser. No. 09/385,119, entitled "Method and Apparatus for Creating a Well-Formed Database System Using a Computer," filed Aug. 27, 1999, and having inventors Craig David Weissman, Greg Vincent Walsh and Eliot Leonard Wegbreit. U.S. patent application Ser. No. 09/073,752, entitled "Method and Apparatus for Creating and Populating a Datamart," filed May 6, 1998, and having inventors Craig David Weissman, Greg Vincent Walsh and Lynn Randolph Slater, Jr. U.S. patent application Ser. No. 09/073,733, entitled "Method and Apparatus for Creating Aggregates for Use in a Datamart," filed May 6, 1998, and having inventors Allon Rauer, Gregory Vincent Walsh, John P. McCaskey, Craig David Weissman and Jeremy A. Rassen. U.S. patent application Ser. No. 09/073,753, entitled "Method and Apparatus for Creating a Datamart and for Creating a Query Structure for the Datamart," filed May 6, 1998, and having inventors Jeremy A. Rassen, Emile Litvak, abhi a. shelat, John P. McCaskey and Allon Rauer.

INT-CL: [7] G06 F 17/30

US-CL-ISSUED: 707/101; 707/3
US-CL-CURRENT: 707/101; 707/3

FIELD-OF-SEARCH: 707/1-10, 707/100-104, 707/200-206

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5386556	January 1995	Hedin et al.	707/4
☐	5550971	August 1996	Brunner et al.	707/3
☐	5659724	August 1997	Borgida et al.	707/3
☐	5675785	October 1997	Hall et al.	707/102
☐	5806060	September 1998	Borgida et al.	707/3
☐	5995958	November 1999	Xu	707/3

OTHER PUBLICATIONS

Kimball, R., "The Data Warehouse Toolkit", (1996) John-Wiley & Sons, Inc., 388 pages (includes CD ROM).
Chawathe, S. et al., "Change Detection in Hierarchically Structured Information", SIGMOD Record, vol. 25, No. 2, Jun. 1996, pp. 493-504.
Chawathe, S. et al., "Meaningful Change Detection in Structured Data",Proceedings of the 1997 ACM SIGMOD International Conference, ACM Press, 1997, pp. 26-37.
Labio, W. et al. "Efficient Snapshot Differential Algorithms for Data Warehousing", Department of Computer Science, Stanford University, (1996), pp. 1-13.
Wiener, J. et al., "A System Prototype for Warehouse View Maintenance", The Workshop on Materialized Views, pp. 26-33, Montreal, Canada, Jun. 1996.
Kawaguchi, A. et al., "Concurrency Control Theory for Deferred Materialized Views", Database Theory-ICDT '97, Proceedings of the 6th International Conference, Delphi, Greece, Jan. 1997, pp. 306-320.
Zhuge, Y. et al., "Consistency Algorithms for Multi-Source Warehouse View Maintenance", Distributed and Parallel Databaes, vol. 6, pp. 7-40 (1998), Kluwer Academic Publishers.
Zhuge, Y. et al., "View Maintenance in a Warehousing Environment", SIGMOD Record, vol. 24, No. 2, Jun. 1995, pp. 316-327.
Widom, J., "Research Problems in Data Warehousing", Proc. of 4th Int'l Conference on Information and Knowledge Management (CIKM), Nov. 1995, 6 pages.
Yang, J. et al., "Maintaining Temporal Views Over Non-Historical Information Sources For Data Warehousing", Advances in Database Technology--EDBT '98 , Proceedings of the 6th International Conference on Extending Database Technology, Valencia, Spain, Mar. 1998, pp. 389-403.
Quass, D., "Maintenance Expressions for Views with Aggregation", Proceedings of the 21st International Conference on Very Large Data Bases, IEEE, Zurich, Switzerland, (Sep. 1995), 9 pages.
Mumick, I. et al., "Maintenance of Data Cubes and Summary Tables in a Warehouse", Proceedings of the 1997 ACM SIGMOD International Conference, ACM Press, 1997, pp. 100-111.
Huyn, N., "Multiple-View Self-Maintenance in Data Warehousing Environments", Proceedings of the 23rd International Conference on Very Large Data Bases, IEEE, (1997), pp. 26-35.
Quass, D. et al., "Making Views Self-Maintainable for Data Warehousing", Proceedings of the Fourth International Conference on Parallel and Distributed Information Systems, IEEE, Dec. 1996, pp. 158-169.
Quass, D. et al., "On-Line Warehouse View Maintenance", Proceedings of the 1997 ACM SIGMOD International Conference, ACM Press, 1997, pp. 393-404.
Gupta, H., "Selection of Views to Materialize in a Data Warehouse", Database Theory--ICDT '97 , Proceedings of the 6th International Conference, Delphi, Greece, Jan. 1997, pp. 98-112.
Harinarayan, V. et al., "Implementing Data Cubes Efficiently", SIGMOD Record, vol. 25, No. 2, Jun. 1996, pp. 205-216.
Gupta, H. et al., "Index Selection for OLAP", IEEE Paper No. 1063-6382/97, IEEE (1997), pp. 208-219.
Labio, W. et al., "Physical Database Design for Data Warehouses", IEEE Paper No. 1063-6382/97, IEEE (1997), pp. 277-288.
Gupta, A. et al., "Aggregate-Query Processing in Data Warehousing Environments", Proceedings of the 21st VLDB Conference, Zurich, Switzerland, Sep. 1995, 358-369.
O'Neill, P. et al., "Improved Query Performance with Variant Indexes", Proceedings of the 1997 ACM SIGMOD International Conference, ACM Press, 1997, pp. 38-49.
McAlpine, G. et al., "Integrated Information Retrieval in a Knowledge Worker Support System", Proc. of the Intl. Conf. on Research and Development In Information Retrieval (SIGIR), Cambridge, MA, Jun. 25-28, 1989, Conf. 12, pp. 48-57.
Tsuda, K. et al., "IconicBrowser: An Iconic Retrieval System for Object-Oriented Databases", Proc. of the IEEE Workshop on Visual Languages, Oct. 4, 1989, pp. 130-137.

"Multiple Selection List [illegible]sentation Aids Complex Search" [illegible]BM Technical Disclosure Bulletin, vol. 36, No. 10, Oct. 1993, pp. 317-318.

ART-UNIT: 271
PRIMARY-EXAMINER: Ho; Ruay Lian
ATTY-AGENT-FIRM: Skjerven Morrill MacPherson LLP Marino; Fabio E.

ABSTRACT:

A method of generating a datamart is described. The datamart includes tables having rows and columns. The method comprises accessing a description of a schema. The schema defines the relationships between the tables and columns. The description further defines how data is to be manipulated and used to populate the tables in the datamart. That is, the description defines the semantic meaning of the data. The description is further used to create a set of commands to create the tables. The commands are executed causing the creation of the tables. Importantly, when the semantic meaning is associated with the column and rows, programs for manipulating and propagating data into those columns and rows are automatically defined. Previously, consultants would have to hand code the creation, manipulation, and population programs for a datamart. Thus, the amount of work required to create and populate the datamart is significantly reduced.

21 Claims, 48 Drawing figures

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L5: Entry 53 of 220 File: USPT Sep 11, 2001

US-PAT-NO: 6289352
DOCUMENT-IDENTIFIER: US 6289352 B1

TITLE: Apparatus and method for compound on-line analytical processing in databases

DATE-ISSUED: September 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Proctor; Anthony Charles	Stowmarket			GBX

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Crystal Decisions, Inc.	Palo Alto	CA			02

APPL-NO: 9/ 087680 [PALM]
DATE FILED: May 29, 1998

INT-CL: [7] G06 F 17/30

US-CL-ISSUED: 707/102; 707/2, 707/100
US-CL-CURRENT: 707/102; 707/100, 707/2

FIELD-OF-SEARCH: 707/101, 707/102, 707/200, 707/100, 707/10, 707/2, 707/3

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected | Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	5905985	May 1999	Malloy et al.	707/100
☐	5926818	July 1999	Malloy et al.	707/100
☐	5940818	August 1999	Malloy et al.	707/2
☐	5943668	August 1999	Malloy et al.	707/3
☐	5978788	November 1999	Castelli et al.	707/2
☐	5978796	November 1999	Malloy et al.	707/3
☐	5983215	November 1999	Ross et al.	707/2
☐	5983232	November 1999	Zhang	707/102
☐	6003036	November 1999	Martin	707/102
☐	6006216	December 1999	Griffin et al.	707/2
☐	6073140	June 2000	Morgan et al.	707/203
☐	6094651	July 2000	Agrawal et al.	707/5

OTHER PUBLICATIONS

Codd et al., "Providign OLAP (On-Line Analytical Processing) to User-Analysys: An IT Mandate" (1993).
Kimball, "The Date Warehouse Toolkit", John Wiley & Sons, Inc., .COPYRGT.1996, pp. 1-19.
Mattison, "Data Warehousing and Date Mining for Telecommunications", Artech House, .COPYRGT.1997, pp. 211-227.

ART-UNIT: 277
PRIMARY-EXAMINER: Homere; Jean R.
ATTY-AGENT-FIRM: Cooley Godward LLP Galliani; William S.

ABSTRACT:

A method executed by a computer under the control of a program includes the establishing of a compound structure in the form of a virtual unit of multi-dimensional storage. The compound structure includes a rack with a horizontal arrangement of target structures linked by an alias backbone representing a dimension of information. The horizontal arrangement of target structures selectively includes further compound structures and base structures containing data, in any combination. The compound structure is referenced to obtain information. The method is particularly useful in On-Line Analytical Processing (OLAP).

21 Claims, 10 Drawing figures

L5: Entry 85 of 220 File: USPT Mar 20, 2001

US-PAT-NO: 6205447
DOCUMENT-IDENTIFIER: US 6205447 B1

TITLE: Relational database management of multi-dimensional data

DATE-ISSUED: March 20, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malloy; William Earl	Santa Clara	CA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
International Business Machines Corporation	Armonk	NY			02

APPL-NO: 8/ 885409 [PALM]
DATE FILED: June 30, 1997

PARENT-CASE:
CROSS-REFERENCE TO RELATED APPLICATIONS This application is related to the following co-pending and commonly-assigned patent applications: Application Ser. No. 08/885,112, entitled "MAPPING DENSE DATA BLOCKS TO ROWS IN A RELATIONAL DATABASE," filed on same date herewith, by William E. Malloy et al., attorney's docket number ST9-97-005; Application Ser. No. 08/885,696, entitled "RELATIONAL DATABASE IMPLEMENTATION OF A MULTI-DIMENSIONAL DATABASE," filed on same date herewith, by William E. Malloy, attorney's docket number ST9-97-007; Application Ser. No. 08/884,695, entitled "RELATIONAL DATABASE MODIFICATIONS BASED ON MULTI-DIMENSIONAL DATABASE MODIFICATIONS," filed on same date herewith, by William E. Malloy et al., attorney's docket number ST9-97-008; Application Ser. No. 08/885,417, entitled "RELATIONAL EMULATION OF A MULTI-DIMENSIONAL DATABASE INDEX," filed on same date herewith, by William E. Malloy et al., attorney's docket number ST9-97-009; and Application Ser. No. 08/885,410, entitled "ATTRIBUTE-BASED ACCESS FOR MULTI-DIMENSIONAL DATABASES," filed on same date herewith, by William E. Malloy et al., attorney's docket number ST9-97-068; all of which applications are incorporated by reference herein.

INT-CL: [7] G06 F 17/30

US-CL-ISSUED: 707/102; 707/100, 707/3, 707/4
US-CL-CURRENT: 707/102; 707/100, 707/3, 707/4

FIELD-OF-SEARCH: 707/1, 707/2, 707/100, 707/3, 707/102, 707/4, 705/44

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-D	PATENTEE-NAME	US-CL
☐	5359724	October 1994	Earle	707/205
☐	5706495	January 1998	Chadha et al.	707/2
☐	5724573	March 1998	Agrawal et al.	707/6
☐	5761652	June 1998	Wu et al.	707/2
☐	5765028	June 1998	Gladden	395/11
☐	5848408	December 1998	Jakobsson et al.	707/3
☐	5903882	May 1999	Asay et al.	705/44
☐	5905985	May 1999	Malloy et al.	707/100
☐	5926818	July 1999	Malloy et al.	707/100
☐	5937408	August 1999	Shoup et al.	707/102
☐	5940818	August 1999	Malloy et al.	707/2
☐	5943668	August 1999	Malloy et al.	707/3
☐	5978788	November 1999	Castelli et al.	707/2
☐	6003036	December 1999	Martin	707/102
☐	6122636	September 2000	Malloy	707/102

OTHER PUBLICATIONS

"Arbor Software and Showcase Corporation Team to Deliver AS/400 Data Warehousing Solution", Business Wire pp. 07310130, Jul. 1996.*
"One Database for All: Oracle Universal Server Accessses Many Data Types Releases Universal Server with Oracle 7.3 as Relational-Database Component and Web Server Software", CommunicationsWeek, pp. 15, Mar. 1996.*
"Information Builders Intros "Fusion" MDDS Warehouse", Newsbytes, May 1996.*
IBM Turns to Arbor Software for Online Analytical Processing and Puts Its Up on Relational Databases, Computergram International, Feb. 1997.*
"Oracle Trumpets New Databases To Introduce Multidimensional Database Later in 1994", Abstract, Computing Canada, pp. 1, Feb. 1994.*
"Data Begins Journey to a Multidimension", Computerworld, pp. 57, Jul. 1996.*
Methaphor Business Series, "Examining Corporate and Syndicated Data", Chapter 3: "Reporter Workshop", 1990, pp. 3-1 through 3-66.
Archer Decision Sciences, Inc., Internet article, http://www.strategy.com/dwf/raden/str101.htm, 1995-1996 (entire document).
Kimball, Ralph, "The Data Warehouse Toolkit: Practical Techniques for Building Dimensional Data Warehouses", Appendix D: "User's Guide for Star Tracker.TM.", published by John Wiley & Sons, Inc., 1996, pp. 321-366.

ART-UNIT: 271
PRIMARY-EXAMINER: Black; Thomas G.
ASSISTANT-EXAMINER: Rones; Charles L.
ATTY-AGENT-FIRM: Pretty & Schroeder, P.C.

ABSTRACT:

A method, apparatus, and article of manufacture for using a relational database management system to support on-line analytical processing (OLAP) systems. A multi-dimensional database is defined using an outline that contains one or more dimensions, each dimension having a list of one or more members. A relational schema is defined based on the defined multi-dimensional database. A relational database is created based on the defined relational schema. The relational database is accessed using access mechanisms provided by the multi-dimensional database and the relational database.

21 Claims, 5 Drawing figures

L1: Entry 1 of 3 File: USPT Dec 25, 1984

US-PAT-NO: 4490811
DOCUMENT-IDENTIFIER: US 4490811 A

TITLE: String comparator device system circuit and method

DATE-ISSUED: December 25, 1984

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yianilos; Peter N.	Fort Lauderdale	FL	33308	
Buss; Samuel R.	Fort Lauderdale	FL	33308	

APPL-NO: 6/ 331631 [PALM]
DATE FILED: December 17, 1981

PARENT-CASE:
CROSS REFERENCE TO RELATED APPLICATIONS This is a continuation-in-part of Ser. No. 020,518 filed Mar. 14, 1979, now abandoned.

INT-CL: [3] G06F 15/40

US-CL-ISSUED: 364/900
US-CL-CURRENT: 707/5

FIELD-OF-SEARCH: 364/200, 364/300, 364/900

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4290115	September 1981	Pitt et al.	364/900

ART-UNIT: 232
PRIMARY-EXAMINER: Zache; Raulfe B.
ATTY-AGENT-FIRM: Malin, Haley & McHale

ABSTRACT:

The string comparator device for comparison of strings of indicia at high speeds for use in a system circuit in a computer system. The string comparison device provides a numeric measurement of the degree of similarity between the compared indicia strings as defined by a mathematical algorithm. The algorithm is solved through a new string comparator device or a new program in a computer system. The system circuit in chip form can be connected in a storage loop of a computer system to locate and quickly extract records that are very similar to the supplied query. Inexact queries will rapidly locate records similar with respect to indicia string related measurements of similarity. The method of indicia string comparison in the improved string comparator device can provide rapid response to queries in a computation time proportional to the average length of the indicia string.

21 Claims, 106 Drawing figures

WEST

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L2: Entry 1 of 3 File: USPT Sep 1, 1998

US-PAT-NO: 5802515
DOCUMENT-IDENTIFIER: US 5802515 A

TITLE: Randomized query generation and document relevance ranking for robust information retrieval from a database

DATE-ISSUED: September 1, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Adar; Eytan	Boston	MA		
Charity; Mitchell N.	Cambridge	MA		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
Massachusetts Institute of Technology	Cambridge	MA			02

APPL-NO: 8/ 661591 [PALM]
DATE FILED: June 11, 1996

INT-CL: [6] G06 F 17/30

US-CL-ISSUED: 707/5; 707/3, 707/4
US-CL-CURRENT: 707/5; 707/3, 707/4

FIELD-OF-SEARCH: 707/5, 707/3, 707/4

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL

	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
☐	4290105	September 1981	Cichelli et al.	707/5
☐	5404507	April 1995	Bohm et al.	395/600

OTHER PUBLICATIONS

Wang et al., "LITREF--A Microcomputer Based Information Retrieval System Supporting Stroke Diagnosis, Design and Development", Proceedings. Second Annual IEEE Symposium on Computer-Based Medical Systems, 26-27 Jun. 1989, Minneapolis, Minnesota, pp. 46-51.
Papakonstantinou et al., "Object Exchange Across Heterogeneous Information Sources", Proceesings of the Eleventh International Conference on Data Engineering, 6-10 Mar. 1995, Taipei, Taiwan, pp. 251-260.
"An algorithm for weighted searching on a Boolean system", Bovey et al., Information Technology, vol. 3, No. 2, Apr. 1984, pp. 84-87.
"Annual Progress Report", Library 2000, Jul. 1, 1993-Jun. 30, 1994, pp. 1-8, available on line at: http://ltt-www.lcs.mit.edu/ltt-www/Papers/1994.annual.html.
"On-the-fly Hyperlink Creation for Page Images", Adar et al., Digital Libraries '95 Proceedings, Jun. 11-13, 1995. pp. 173-176.
"Laboratory for Computer Science Progress Report 31", Massachusetts Institute of

Technology, Jul. 1993-Jun. 1994, Library 2000, one unnumbered cover page, second page numbered 3, third unnumbered page, and pp. 154-163.
"Library 2000 Quarterly Progress Report, Apr. 1-Jun. 30, 1994", Quarterly Progress Report, pp. 1-4, available on-line at:
http://ltt-www.lcs.mit.edu/ltt-www/Papers/1994.4qpr.html.
"Probabilistic Methods For Ranking Output Documents In Conventional Boolean Retrieval Systems*", Radecki, Information Processing & Management vol. 24, No. 3, pp. 281-302, 1988.

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ABSTRACT:

A method and apparatus for randomly selecting terms from an input string to form a plurality of search queries is described. Each of the plurality of search queries can be provided to a database to locate database entries in the database. Database entries returned from a database search using the plurality of search queries may be ordered to provide a relevance ranked list of the database entries.

21 Claims, 4 Drawing figures